

Curriculum Vitae

Ronald L. Baskett

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Expertise

- Weather Research and Forecasting (WRF) model; wind and solar energy studies, boundary layer, mesoscale, satellite, complex terrain, urban, forensic, and agricultural meteorology; atmospheric dispersion modeling; meteorological and remote sensing systems, air quality, aerosol physics, model evaluation studies with large data sets
- Extensive experience leading groups and developing and managing multi-disciplinary scientific and technical projects involving federal sponsors and collaborators
- Management of consequence assessments for national and international incidents involving hazardous chemical, biological, radiological, and nuclear releases to the atmosphere

Employment

Atmospheric Scientist and Group Leader <i>Physical and Life Sciences Directorate, LLNL</i>	1995-present
<ul style="list-style-type: none">• Principal Investigator and Principal Scientist<ul style="list-style-type: none">- DOE Energy Efficiency and Renewable Energy (EERE) wind energy projects- LLNL Atmospheric Modeling Testbed- Program development in alternative energy and high-performance computing• Operations Team Leader and Response Manager<ul style="list-style-type: none">- National Atmospheric Release Advisory Center (NARAC) program- PI for multiple NARAC projects	
Atmospheric Scientist and Deputy Group Leader <i>EG&G Energy Measurements, Inc., Pleasanton, CA</i> Supported LLNL NARAC program	1983-1995
Manager, Air Quality Modeling Group <i>PLT International, Inc., Denver, CO</i>	1982-1983
Assistant Manager, Atmospheric Sciences Department <i>Environmental Sciences Division, Camp Dresser & McKee, Denver, CO</i>	1980-1982
Staff Meteorologist and Section Manager <i>Environmental Research & Technology, Inc., Westlake Village, CA</i>	1976-1980
Scientist <i>Lockheed Electronics Co., Johnson Space Center, Houston, TX</i>	1975-1976

Education

M.S. in Atmospheric Science, University of California at Davis	1976
B.S. in Atmospheric Science, University of California at Davis	1972

Research Interests

Meteorological aspects of wind and solar energy development
Mesoscale meteorological modeling
Atmospheric transport and diffusion modeling
Field studies, tracer experiments, and model evaluation

Recent Invited Talks

- Baskett, R.L.** and M.M. Bradley. 2012. Atmospheric Modeling for LLNL Wind Energy and Emergency Response Programs, Seminar at San José State University Department of Meteorology and Climate Science, October 16, 2012. LLNL-PRES-591574.
- Baskett, R.L.**, G. Sugiyama, and J.S. Nasstrom. 2008. Operational Emergency Response Modeling Systems for Use with Major Releases of Airborne Hazards. Invited talk at Air Quality in Emergency Response. California Air Response Planning Alliance. Sacramento, CA, October 15, 2008. LLNL-PRES-407706.

Recent Conference Papers

- Scott, Randall E., John M. Phillips, Dirk Cairns-Gallimore, Steven G. Homann, and Ronald L. **Baskett**. Technological Advances in Radiological Contingency Planning for the 2011 Mars Science Lab Mission. 2012. Proceedings of American Nuclear Society Nuclear and Emerging Technologies for Space 2013, Albuquerque, NM, February 25-28, 2013. LLNL-ABS-580792.
- Baskett, R.L.**, Sugiyama, G., J.S. Nasstrom, and B.M. Pobanz. 2010. Interagency Modeling and Atmospheric Assessment Center Support for Airborne Emergencies, 2010 California Air Response Planning Alliance Training Summit, Sacramento, CA, December 14, 2010. LLNL-ABS-463213.

Journal Articles

- Nasstrom, J.S., G. Sugiyama, R.L. **Baskett**, S.C. Larsen, and M.M. Bradley. 2006. The NARAC modeling and decision support system for radiological and nuclear emergency preparedness and response, *Intl. J. Emergency Management* **4** (3): 524-550. UCRL-JRNL-211678-Rev 2.
- Craig, D.K., R.L. **Baskett**, J.S. Davis, L.L. Dukes, D.J. Hansen, A.J. Petrocchi, T.J. Powell, P.J. Sutherland, T.E. Tuccinardi, Jr. 1999. Recommended default methodology for analysis of airborne exposures to mixtures of chemicals in emergencies. *Appl. Occup. & Envr. Hygiene* **14** (9): 609-617.
- Sullivan, T.S., J.S. Ellis, C.S. Foster, K.T. Foster, R.L. **Baskett**, J.S. Nasstrom, W.W. Schalk, III. 1993. Atmospheric Release Advisory Capability: Real-time modeling of airborne hazardous materials. *Bull. Amer. Meteor. Soc.* **74**: 2343-2361.
- Mueller, P. K., G.M. Hidy, K.K. Warren, T.F. Lavery, and R.L. **Baskett**. 1980. The occurrence of atmospheric aerosols in the northeastern United States. *Annals of the New York Academy of Sciences* **338**: 463-482.
- Carroll, J. J. and R.L. **Baskett**. 1979. Dependence of air quality in a remote location on local and mesoscale transports: A case study. *J. Appl. Meteor.* **18**: 474-486.
- Morgan, D.L., L.O. Myrup, D. Rogers, and R.L. **Baskett**. 1977. Microclimates within an urban area. *Annals of Assoc. of American Geographers* **67** (1): 55-65.
- Morgan, D.L. and R.L. **Baskett**. 1974. Comfort of man in the city: An energy balance model of man-environmental coupling. *Intl. J. Biometeorology* **18**: 184-198.